

Fig. 1

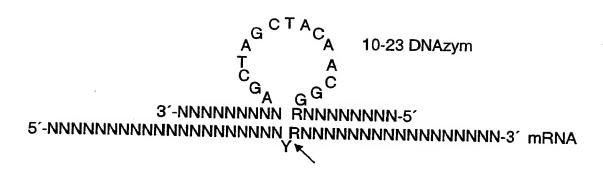


Fig. 2

10/574,560

DNAzyme Sequenz 5'-TCGGTCAGAggctagctacaacgaTGCGTTGCT-3' hgd1 5'-GGCGTACGAggctagctacaacgaCTGCTCGGT-3' hgd2 5'-GGCGGCGTAggctagctacaacgaGACCTGCTC-3' hgd3 5'-CTCGGGTCAggctagctacaacgaCTGGGTAGC-3' hgd4 5'-TCCTCTGCAggctagctacaacgaCGGGGTCCT-3' hgd5 5'-ACTCTGCAAggctagctacaacgaTCTGCGAGC-3' hgd6 5'-GGGCGACGAggctagctacaacgaTCTGCAATT-3' hgd7 5'-AAGGGCGAggctagctacaacgaGACTCTGCA-3' hqd8 5'-AAAACGGGAggctagctacaacgaCAGGTTGTA-3' hqd9 5'-AGAATAAAAggctagctacaacgaGGGACCAGG-3' hgd10 5'-ATGGCAGAAggctagctacaacgaAAAACGGGA-3' hqd11 5'-AACTGGGTAggctagctacaacgaGGCAGAATA-3' hgd12 5'-ATCCAAAAAggctagctacaacgaTGGGTATGG-3' hgd13 5'-AGGGGAAGAggctagctacaacgaAAAAATCCA-3' hqd14 5'-TTTTAAAAAggctagctacaacgaTATCTTGGA-3' hgd15 5'-GTGGGGGAggctagctacaacgaGGGAAGGCT-3' had16 5'-GTTGAATGAggctagctacaacgaTTGCTTTCG-3' hgd17 5'-GTCGTTGAAggctagctacaacgaGATTTGCTT-3' hqd18 hgd19 5'-GGCCCGGAAggctagctacaacgaCCGCGCGCG-3' 5'-TCACCTCCAggctagctacaacgaGGCCTCGGC-3' hgd20 5'-CCGCCGTCAggctagctacaacgaCTCCATGGC-3' hgd21 5'-GGTGGCTCAggctagctacaacgaCCAGCGCGG-3' hqd22 5'-CGTTGAGCAggctagctacaacgaGGCGGGGTG-3' hgd23 hgd24 5'-CCGCGTCCAggctagctacaacgaGTAGGAGTG-3' 5'-CAGCGGGTAggctagctacaacgaTGCGCCGCG-3' hgd25 5'-GCACATCCAggctagctacaacgaCTCCTCCGG-3' hgd26 5'-AAAAGCACAggctagctacaacgaCCACCTCCT-3' hgd27 5'-TAAAAAGCAggctagctacaacgaATCCACCTC-3' hqd28 5'-GACCGTCGAggctagctacaacgaGTTAAAAAG-3' hgd29 5'-TTGCCTTGAggctagctacaacgaCGTCGATGT-3' hgd30 5'-AGGGCGGAggctagctacaacgaGTGGTTGCC-3' hgd31 5'-TGGCCCTGAggctagctacaacgaCGAGTTTCC-3' hgd32 5'-ACCTCTGCAggctagctacaacgaCGTGGCCCT-3' hgd33 5'-CGGAGGGTAggctagctacaacgaCTCTGCACC-3' had34 5'-GGCGGCACAggctagctacaacgaCTGGCTCCC-3' hgd35 5'-CGGGCGGCAggctagctacaacgaACCTGGCTC-3' hgd36 hgd37 5'-AGGGATCCAggctagctacaacgaGAAGCAGAG-3' 5'-GGGTAGGGAggctagctacaacgaCCATGAAGC-3' hqd38 5'-GGGCTGAGAggctagctacaacgaTCCAGGGGG-3' hgd39 5'-GTGGATGGAggctagctacaacgaGTCTTGGAG-3' hgd40 5 '-- CGTGGTGGAggctagctacaacgaGGACGTCTT-3 ' hqd41 5'-GGGGGTAGAggctagctacaacgaGGAGAGGGG-3' hgd42 5'-GGAGGAGGAggctagctacaacgaGAGGCCGGG-3' hgd43 5'-GCCCCCGAggctagctacaacgaAAGGAGGAG-3' had44 5'-CCGGGGAGAggctagctacaacgaGTCCTTCGG-3' hqd45 5'-GGACAGCGAggctagctacaacgaGGGTCCGGG-3' hgd46 5'-TGGGGTGGAggctagctacaacgaAGCGATGGG-3' hgd47 5'-CTTGAGGCAggctagctacaacgaTCTTTCTCG-3' hgd48 hgd49 5'-CACCTGGTAggctagctacaacgaTTGAGGCAC-3'

Fig. 3 Cont.

Name DNAzyme Sequenz	
hgd50 5'-GCAGGGGCAggctagctacaacgaCTGGTA	omm ol
hgd51 5'-CCAGCTTCAggctagctacaacgaGCTGTC	CTT-3
hgd52 5'-GTGGGACGAggctagctacaacgaTCCAGC	
hgd53 5'-GGAGTGGGAggctagctacaacgaGACTCC	TTC-3
	AGC-3
	3GG-3
	ACG-3'
	CGG-3'
	3CT-3'
	3TG-3'
	CGG-3'
"Igdov 5 -GGAGCTGTAggctagctacaacgaTCGCCC	CC-3!
mgdo' 5 -GGACTTGCAggctagctacaacgaCCGAACG	CC-31
119002 5 -GGCCTGGAggctagctagaacgaTTCClTC	100-21
inguos s - iGTGCTGGAggctagctacaacgaCGCCCC	JUC 3 1
119004 5 GITCACACAGGCtactacaacgaTCCCTCC	י ביתויטי
119005 5 -CAGTTCACAGGCtaggtagaacgaacgaacgc	CC 21
119000 5 -CACAGITCAggctagctacaacgaACACTCC	CT-31
hgd67 5'-GTTGCCCCAggctagctacaacgaAGTTCAC	ΔC_21
hgd68 5'-TCGCCGCCAggctagctacaacgaAGTGGGG	дс-3 тс-31
hgd69 5'-CCCGTGCCAggctagctacaacgaCTCGCCG	CC 3 !
hgd70 5'-GGCGTTGCAggctagctacaacgaAGGTAGT	Cm_ 3 !

Fig. 4

Multiple Sequence Alignments GATA-3

Sequenz_1 Sequenz_2	1	GGCGCCGTCTTGATACTTTCAGAAAGAATGCATTCCCTGTAAAAAAAA	60
Sequenz_3	1	GGCGCCGTCTTGATAC TTTCAGAAAGAATGCATTCCCTGTAAAAAAAAAA	* * * *
Sequenz_1 Sequenz_2	61 ****	GAGAGGGAGAGAGAGAGAGAGAGAGAGAGAGAGGGAGAGA	
Sequenz_3	61	#TGAGAG#GGGAGAGAGAGAGAGAGAGAGAGAGGGGAGAGGGAGACAGAGCG	
Sequenz_1 Sequenz_2	120 ****	AGCAACGCAATCTGAC CGAGCAGGTCGTACGCCGCCGCCTCCTCCTCCTCTCTCTC	
Sequenz_3	121	AGCAACGCAATCTGAC CGAGCAGGTCGTACGCCGCCGCCTCCTCCTCCTCTCTCTC	
Sequenz_1	180 ****	GCTACCCAGGTGACCC GAGGAGGGACTCCGCCTCCGAGCGGCTGAGGACCCCGGTGCAGA	
Sequenz_2 Sequenz_3	181	GCTACCCAGGTGACCC GAGGAGGGACTCCGCCTCCGAGCGGCTGAGGACCCCGGTGCAGA	
Sequenz_1	240	GGAGCCTGGCTCGCAG AATTGCAGAGTCGTCGCCCCTTTTTACAACCTGGTCCCGTTTTA	
Sequenz_2	***		299
Sequenz_3	241	GGAGCCTGGCTCGCAG AATTGCAGAGTCGTCGCCCCTTTTTACAACCTGGTCCCGTTTTA	**** 300
Sequenz_1 Sequenz_2	300 ****	TTCTGCCTTACCCAGT TTTTGGATTTTTGTCTTCCCCTTCTTCTCTTTGCTAAACGACCC	359
Sequenz_3	301	TTCTGCC TACCCAGT TTTTGGATTTTTGTCTTCCCCTTCTTCTCTTTTGCTAAACGACCC	**** 360
Sequenz_1	360	CTCCAAGATAATTTTT AAAAAACCTTCTCCTTTGCTCACCTTTGCTTCCCAGCCTTCCCA	
Sequenz_2	1		419 14
Sequenz_3	361	CTCCAAGATAATTTTT AAAAAACCTTCTCCTTTGCTCACCTTTGCTTCCCAGCCTTCCCA	420
Sequenz_1	420	TCCCCCCACGAAAGC AAATCATTCAACGACCCCCGACCCTCCGACGGCAGGAGCCCCCC	479
Sequenz_2	15	100000CACOGAAAGCAAATCATTCAACGACCCCCCCCCCCCCCCC	479 74
Sequenz_3	421	TOCCCCACCGAAAGC AAATCATTCAACGACCCCCGACCCTCCGACGGCAGGAGCCCCCC	480
Sequenz_1 Sequenz_2	480	GACCTCCCAGGCGGAC CGCCCTTCCTCTCCCTCGCGCGGGCTTCCGGGCCCGGCGAGAGGGC	539
Sequenz_3	75 481		133
		ONCOTOCCAGGCGGAC CGCCCTMCCTCMCCTCMCGGCGCGCGGGTTCCGGGCCCGGCGAGAGGGC	540
Sequenz_1 Sequenz_2	540	GCGA CAGCCGAGG CCATGGAGGTGACGGCGGACCAGCCGCGCTGGGTGAGCCACCAC	599
Sequenz_3	134 541	TOTAL TOTAL CONTROL CO	193
<u>.</u>		CONTRACTOR CONTINUE CONTRACTOR CO	600
Sequenz_1 Sequenz_2	600 194	CACCCGCCGTGCTCA ACGGGCAGCACCCGGACACGCACCCGGGCCTCAGCCACTCC	659
Sequenz_3	601	OF THE PROPERTY OF THE PROPERT	253
Sequenz_1	660	CHOCCEGE GCTCA ACGGGCAGCACCCGGACACCACCCGGGCCTCAGCCACTCC	660
Sequenz_1	254	TACATGGACGCGGCGC AGTACCCGCTGCCGGAGGAGGTGGATGTGCTTTTTAACATCGAC	719
Sequenz_3	661	TACATGGACGCGCGC AGTACCCGCTGCCGGAGGAGGTGGATGTGCTTTTTAACATCGAC TACATGGACGCGGCGC AGTACCCGCTGCCGGAGGAGGTGGATGTGCTTTTTAACATCGAC	313 720
Sequenz_1	720	GGTCAAGGCAACCACG TCCCGCCCTACTACGGA A ACTCGGTCA CCCCGA CCCTGGA CC	
Sequenz_2	314	TO COMPOSITE CONTROL TO CONTROL OF THE CONTROL OF T	779 373
Sequenz_3	721	GGTCAAGGCAACCACG TCCCGCCCTACTACGGAAACTCGGTCAGGGCCACGGTGCAGAGG	780
Sequenz_1	780		
Sequenz_2	374	TACCCTCCGACCCACC ACGGGAGCCAGGTGTGCCGCCCGCCTCTGCTTCATGGATCCCTA	839
Sequenz_3	781	TACCCTCCGACCCACC ACGGGAGCCAGGTGTGCCGCCCGCCTCTGCTTCATGGATCCCTA TACCCTCCGACCCACC ACGGGAGCCAGGTGTGCCGCCCCGCC	433 840
Sequenz_1	840		•
Sequenz_2	434	CCCTGGCTGGACGGCG GCAAAGCCCTGGGCAGCCACACCGCCTCCCCCTGGAATCTC	899
Sequenz_3	841	CCCTGGCTGGACGGCG GCAAAGCCCTGGGCAGCCACCACCGCCTCCCCCTGGAATCTC CCCTGGCTGGACGGCG GCAAAGCCCTGGGCAGCCACCACCACCGCCTCCCCCTGGAATCTC	493 900
Sequenz_1	900		
Sequenz_2	494	AGCCCCTTTTCCAAGA CGTCCATCCACCACGGCTCCCCGGGGCCCCTCTCCGTCTACCCC AGCCCCTTCTCCAAGA CGTCCATCCACCACGGCTCCCCGGGGCCCCTCTCCGTCTACCCC	959
Sequenz_3	901	AGCCCCTTCTCCAAGA CGTCCATCCACCACGGCTCCCCGGGGCCCCTCTCCGTCTACCCC	553 960
Sequenz_1	960		
Sequenz_2	554	CCGGCCTCGTCCTCCT CCTTGTCGGGGGGCCACGCCAGCCGCACCTCTTCACCTTCCCG CCGGCCTCGTCCTCCT CCTTGTCGGGGGGCCACGCCAGCCCGCACCTCTTCACCTTCCCG	1019
Sequenz_3	961	CCGGCCTCGTCCTCCTTGTCGGGGGGCCACGCCACCCCGCACCTCTTCACCTTCCCG	613 1020
Sequenz_1	1020	CCCACCCCGCCGAAGG ACGTCTCCCCGGACCCATCGCTGTCCACCCCAGGCTCGGCCGGC	
Sequenz_2	614	TO CONTROL OF THE PROPERTY OF	1079
Sequenz_3	1021	CCCACCCGGCGAAGG ACGTCTCCCCGGACCCATCGCTGTCCACCCCAGGCTCGGCCGGC	673 1080

Sequenz_1		TCGGCCCGGCAGGACGAGAACACTCCCTTCA	
Sequenz_2	674	TCGGCCCGGCAGGACG AGAAAGAGTGCCTCAAGTACCAGGTGCCCCTGCCCGACAGCATC	1139
Sequenz_3	1081		
			1140
Sequenz_1		AAGCTGGAGTCGTCCC ACTCCCGTGGCAGCATGACCGCCCTGGGTGGAGCCTCCTCGTCG	
Sequenz_2	734	AAGCTGGAGTCGTCCC ACTCCCGTGCACATGACCGCCCTGGGTGGAGCCTCCTCGTCG	1199
Sequenz_3	1141	AAGCTGGAGTCGTCCC ACTCCGTGGCAGCATGACCGCCCTGGGTGGAGCCTCCTCGTCG	793
		TO THE STATE OF THE PROPERTY OF THE STATE OF	1200
Sequenz_1		ACCCACCACCCATCA CCACCTACCGCCCTACGTGCCCGAGTACAGCTCCGGACTCTTC	
Sequenz_2		ACCCACCACCCATCA CCACCTACCGCCCTACGTGCCCGAGTACAGCTCCGGACTCTTC ACCCACCACCCATCA CCACCTACCCCCCCTACGTGCCCGAGTACAGCTCCGGACTCTTC	1259
Sequenz_3	1201	ACCCACCACCATCA CCACCTA CCCCCCTA COTGCCCGAGTACAGCTCCGGACTCTTC	853
0		ACCCACCACCCATCA CCACCTACCCGCCCTACGTGCCCGAGTACAGCTCCGGACTCTTC	
Sequenz_1	1260	CCCCCAGCAGCCTGC TGGGCGGCTCCCCCACCGGCTTCGGATGCAAGTCCAGGCCCAAG	
Sequenz_2	854	CCCCCAGCAGCCTGC TGGGCGGCTCCCCCACCGGCTTCGGATGCAAGTCCAGGCCCAAG	
Sequenz_3	1261	CCCCCAGCAGCCTGC TGGGCGGCTCCCCACCGGCTTCGGATGCAAGTCCAGGCCCAAG	913 1320
Sequenz_1	1320		1320
Sequenz_2	914	GCCCGGTCCAGCACAG AAGGCAGGAGTGTGTGAACTGTGGGGCAACCTCGACCCCACTG	1379
Sequenz_3	1321		970
sedueus_3	1321	GCCCGGTCCAGCACAG AAGGCAGGAGTGTGTGAACTGTGGGGCAACCTCGACCCCACTG	
Co 1	4200		1380
Sequenz_1	1380	TGGCGGCGAGATGGCA CGGGACACTACCTGTGCAACGCCTGCGGGCTCTATCACAAAATG	
Sequenz_2	971	TO TO THE TOTAL OF	1439
Sequenz_3	1381	TGGCGGCGAGATGCCA CCGCACACACACGCCTGCGGGCTCTATCACAAAATG	1030
		TGGCGGCGAGATGGCA CGGGACACTACCTGTGCAACGCCTGCGGGCTCTATCACAAAATG	1440
Sequenz_1	1440		
Sequenz 2	1031	AACGGACAGAACCGGC CCCTCATTAAGCCCAAGCGAAGGCTGTCTGCAGCCAGGAGAGCA	1499
Sequenz_3	1441		1090
sedueus_2	1441	AACGGACAGAACCGGC CCCTCATTAAGCCCAAGCGAGAGGCTGTCTGCAGCCAGGAGAGCA	
			1500
Sequenz_1	1500	GGGACGTCCTGTGCGA ACTGTCAGACCACCACACACACTCTGGAGGAGGAATGCCAAT	
Sequenz_2	1091	TO TO TO TO TO TO TO THE PARTY OF THE PARTY	1559
Sequenz_3	1501	GGGACGTCCTGTGCGA ACTGTCAGACCACCACCACCACTCTGGAGGAGGAATGCCAAT	1150
			1560
Sequenz_1	1560	GGGGACCCTGTCTGCA ATGCCTGTGGGCTCTACTACAAGCTTCACAATATTAACAGACCC	
Sequenz_2	1151	GGGGACCCTGTCTGCA ATTGCGTGTGGGCTCTACTACAAGCTTCACAATATTAACAGACCC	1619
Sequenz_3	1561	GGGGACCCTGTCTGCA ATGCCTGTGGGCTCTACTACAAGCTTCACAATATTAACAGACCC GGGGACCCTGTCTGCA ATGCCTGTGGGCTCTACTACAAGCTTCACAATATTAACAGACCC	1210
		GGGGACCCTGTCTGCA ATGCCTGTGGGCTCTACTACAAGCTTCACAATATTAACAGACCC	1620
Sequenz_1	1620		
Sequenz_2	1211	CTGACTATGAAGAAGGAAGGCATCCAGACCAGAAACCGAAAAATGTCTAGCAAATCCAAA	1679
Sequenz_3	1621		1270
	1027	CTGACTATGAAGAAGGAAGGCATCCAGACCAGAAACCGAAAAATGTCTAGCAAATCCAAA	1680
Sequenz_1	1680		1000
Sequenz_2		AAGTGCAAAAAAGTGCATGACTCACTGGAGGACTTCCCCAAGAACAGCTCGTTTAACCCG	1739
	1271		
Sequenz_3	1681	AAGTGCAAAAAAGTGCATGACTCACTGGAGGACTTCCCCAAGAACAGCTCGTTTAACCCG	1330
C 1			1740
Sequenz_1	1740	GCCGCCTCTCCAGAC ACATGTCCTCCCTGAGCCACATCTCGCCCTTCAGCCAC	4 = 4 = 1
Sequenz_2	1331		1799
Sequenz_3	1741	GCCGCCCTCTCCAGAC ACATGTCCTCCCTGAGCCACATCTCGCCCTTCAGCCACCCAGC	1390
		TO THE TECHNOLOGICAL ACTUAL CONTROL OF THE TECHNOLOGIC CARREST	1800
Sequenz_1	1800	CACATGCTGACCACGCCCA	
Sequenz_2	1391	CACATGCTGACCACGC CCACGCCGATGCACCCGCCATCCAGCCTGTCCTTTGGACCACAC	1859
Sequenz_3	1801		1450
4	.00 ,	CACATGCTGACCACGC CCACGCCGATGCACCCGCCATCCAGCCTGTCCTTTGGACCACAC	1860
Sequenz_1	1860		
Sequenz_2	1451	CACCCCTCCAGCATGG TCACCGCCATGGGTTAGAGCCCTGCTCGATGCTCACAGGGCCCC	1919
Sequenz_3	1861		1510
sequenz_3	1001	CACCCTCCAGCATGG TCACCGCCATGGGTTAGAGCCCTGCTCGATGCTCACAGGGCCCC	
			1920
Sequenz_1	1920	CAGCGAGAGTCCCTGC AGTCCCTTTCGACTTGCATTTTTGCAGGAGCAGTATCATGAAGC	
Sequenz_2	1511	CAGCGAGAGTCCCTGC AGTCCCTTTCGACTTGCATTTTTGCAGGAGCAGTATCATGAAGC CAGCGAGAGTCCCTGC AGTCCCTTTCGACTTGCATTTTTTGCAGGAGCAGTATCATGAAGC	1979
Sequenz_3	1921	CAGCGAGAGTCCCTGC ACTCCCTTTTCCA CTTTTTTTTTT	1570
		CAGCGAGAGTCCCTGC AGTCCCTTTCGACTTGCATTTTTGCAGGAGCAGTATCATGAAGC	1980
Sequenz_1	1980	CTAAACGCGATGCATA TATCOMMUNICA A COCT	
Sequenz_2	1571	CTAAACGCGATGGATA TATGTTTTTGAAGGCAGAAAGCAAAATTATGTTTGCCACTTTGC	2039
Sequenz_3	1981		1630
~-4	, , , , ,	CTAAACGCGATGGATA TATGTTTTTGAAGGCAGAAGCAAAATTATGTTTGCCACTTTGC	2040
Sequenz_1	2040		2040
		AAAGGAGCTCACTGTG GTGTCTGTGTTCCAACCACTGAATCTGGACCCCATCTGTGAATA	2000
Sequenz_2	1631	TO T	2099
Sequenz_3	2041	AAAGGAGCTCACTGTG GTGTCTGTGTTCCAACCACTGAATCTGGACCCCATCTGTGAATA	1690
		TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TARENT TOTAL	2100

Fig. 4 Cont.

Sequenz_1	2100	AGCCATTCTGACTCAT ATCCCCTATTTAACAGGGTCTCTAGTGCTGTGAAAAAAAA	
Sequenz_2	1691	TO CONCIONIATOUCCUTATION APPROXIMATION CONCORDED AND CONCO	2158
Sequenz_3	2101	AGCCATTCTGACTCAT ATCCCCTATTTAACAGGGTCTCTAGTGCTGTGAAAAAAAA	1750
Sequenz_1	2450		2160
Sequenz_2	2159 1751	CTGAACATTGCATAT AACTTATATTGTAAGAAATACTGTACAATGACTTTATTGCATCT	2218
Sequenz 3	2161	CTGAACATTGCATAT AACTTATATTGTAAGAAATACTGTACAATGACTTTATTGCATCT	1810
ocquent_5	2101	CTGAACATTGCATAT AACTTATATTGTAAGAAATACTGTACAATGACTTTATTGCATCT CTGAACATTGCATAT AACTTATATTGTAAGAAATACTGTACAATGACTTTATTGCATCT CTGAACATTGCATAT AACTTATATTGTAAGAAATACTGTACAATGACTTTATTGCATCT	2220
Sequenz_1	2219		
Sequenz 2	1811	GGGTAGCTGTAAGGCA TGAAGGATGCCAAGAAGTTTAAGGAATATGGGAGAAATAGTGTG	2278
Sequenz_3	2221		1870
	,	GGGTAGCTGTAAGGCATGAAGGATGCCAAGAAGTTTAAGGAATATGGGAGAAATAGTGTG	2280
Sequenz_1	2279	GAAATTAAGAAGAACTAACCTACCTCCCCCCCCCCCCCC	
Sequenz_2	1871	GAAATTAAGAAGAAC TAGGTCTGATATTCAAATGGACAAACTGCCAGTTTTGTTTCCTT	2338
Sequenz_3	2281	GAAATTAAGAAGAAAC TAGGTCTGATATTCAAATGGACAAACTGCCAGTTTTGTTTCCTT GAAATTAAGAAGAAAC TAGGTCTGATATTCAAATGGACAAACTGCCAGTTTTGTTTCCTT	1930
		THE THEORY OF THE TRANSPORT OF THE TRANS	2340
Sequenz_1	2339	TCACTGGCCACAGTTG TTTGATGCATTAAAAGAAAATAAAAAAAAAA	
Sequenz_2	1931	TO TO THE TITLE TO THE PARTY OF	2398
Sequenz_3	2341	TCACTGGCCACAGTTG TTTGATGCATTAAAAGAAAATAAAAAAAAGAAAAAAGGAAAAAGGAAAAAG	1990
_		THE PROPERTY OF THE PROPERTY O	2399
Sequenz_1	2399	A	2222
Sequenz_2	1991	AAAAAAAAAAAAAA GTTGTAGGCGAATCATTTGTTCAAAGCTGTTGGCCCTCTGCAAA	2399
Sequenz_3	2400	AAAAAAAAAGAAAAAA GTTGTAGGCGAATCATTTGTTCAAAGCTGTTGGCC-TCTGCAAA	2050 2458
Sequenz_1	****	TOUR TELEGORIA	2456
Sequenz_2	2051	7/11 1 m 2 co 2	****
Sequenz_3	2459	GGAAATACCAGTTCTG GGCAATCAGTGTTACCGTTCACCAGTTGCCATTGAGGGTTTCAG	2110
		GGAAATACCAGTTCTG GGCAATCAGTGTTACCGTTCACCAGTTGCCATTGAGGGTTTCAG	2518
Sequenz_1	****	•	
Sequenz_2	2111	AGAGCCTTTTTCTACCCCTTACACCTTTCTTCTACACCTTTTCTTACCCCTTTTCTTACCCCTTTTCTTACCCCTTTTCTTTCTTACCCCTTTTCTTTCTTACCCCTTTTCTTTCTTACCCCTTTTCTTTCTTACCCCTTTTCTTTCTTTCTTACCCTTTTCTTTT	***
Sequenz_3	2519	AGAGCCTTTTTCTAGG CCTACATGCTTTGTGAACAAGTCCCTGTAATTGTTGTTTGT	2170
		THE TOTAL SCIENCE OF THE TOTAL CONTROL OF THE TOTAL	2578
Sequenz_1	****		
Sequenz_2	2171	TATAATTCAAAGCACC AAAATAAGAAAAGATGTAGATTTATTTCATCATATTATACAGAC	****
Sequenz_3	2579	TATAATTCAAAGCACC AAAATAAGAAAAGATGTAGATTATTTCATCATATTATACAGAC	2230
Sequenz_1	****	THE TAXABLE TO THE TA	2638
Sequenz_2	. 2231	00330000000	****
Sequenz_3	2639	CGAACTGTTGTATAAA TTTATTTACTGCTAGTCTTAAGAACTGCTTTCTTTCGTTTGTTT	2290
	2000	CGAACTGTTGTATAAA TTTATTTACTGCTAGTCTTAAGAACTGCTTTCTTTCGTTTGTTT	2698
Sequenz_1	****		
Sequenz_2	2291	GTTTCAATATTTTCCTTCTTCTTCTTCTTCTTTTTTTTTT	***
Sequenz_3	2699	GTTTCAATATTTTCCTTCTCTCAATTTTCGGTTGAATAAACTAGATTACATTCAGTTG	2350
		GTTTCAATATTTTCCT TCTCTCTCAATTTCGGGATTACATTCAGTTG	2731
Sequenz_1	****		
Sequenz_2	2351	GCAAAAAAAAAA	****
Sequenz_3	****		2365

AGGGAGAGCGAGCAGCGAGCAATCTGACCGAGCAGGTCGTAC GCCGCCGCCTCCTCCTCTCTCTCTCTCTCTCCTACCCAGGTGACCCGAGG AGGGACTCCGCCTCCGAGCGCTGAGGACCCCGGTGCAGAGGAGCCTGGC TCGCAGAATTGCAGAGTCGTCGCCCCTTTTTACAACCTGGTCCCGTTTTA TTCTGCCATACCCAGTTTTTGGATTTTTGTCTTCCCCTTCTTCTCTTTGC TAAACGACCCCTCCAAGATAATTTTTAAAAAACCTTCTCCTTTGCTCACC TTTGCTTCCCAGCCTTCCCATCCCCCACCGAAAGCAAATCATTCAACGA CCCCGACCCTCCGACGGCAGGAGCCCCCGACCTCCCAGGCGGACCGCC CTCCCTCCCGCGCGCGGGTTCCGGGCCCGGCGAGAGGGCGCGAGCACAG CCGAGGCCATGGAGGTGACGGCGGGACCAGCCGCGCTGGGTGAGCCACCAC CACCCGCCGTGCTCAACGGGCAGCACCGGACACGCACCACCGGGCCT CAGCCACTCCTACATGGACGCGGGGCGCAGTACCCGCTGCCGGAGGAGGTGG ATGTGCTTTTTAACATCGACGGTCAAGGCAACCACGTCCCGCCCTACTAC GGAAACTCGGTCAGGGCCACGGTGCAGAGGTACCCTCCGACCCACCACGG ACGGCGGCAAAGCCCTGGGCAGCCACACACCGCCTCCCCTGGAATCTC AGCCCCTTCTCCAAGACGTCCATCCACCACGGCTCCCCGGGGCCCCTCTC CGTCTACCCCCGGCCTCGTCCTCCTTGTCGGGGGGCCACGCCAGCC CGCACCTCTTCACCTTCCCGCCCACCCCGCCGAAGGACGTCTCCCCGGAC CCATCGCTGTCCACCCCAGGCTCGGCCGGCCCGGCCAGGACGAGAA AGAGTGCCTCAAGTACCAGGTGCCCCTGCCCGACAGCATGAAGCTGGAGT CGTCCCACTCCCGTGGCAGCATGACCGCCCTGGGTGGAGCCTCCTCGTCG ACCCACCACCCATCACCACCTACCCGCCCTACGTGCCCGAGTACAGCTC CGGACTCTTCCCCCCAGCAGCCTGCTGGGCGGCTCCCCCACCGGCTTCG GATGCAAGTCCAGGCCCAAGGCCCGGTCCAGCACAGAAGGCAGGGAGTGT GTGAACTGTGGGGCAACCTCGACCCCACTGTGGCGCGAGATGGCACGGG ACACTACCTGTGCAACGCCTGCGGGCTCTTTCACAAATTGAACGGACAGA ACCGGCCCCTCATTAAGCCCAAGCGAAGGCTETCTGCAGCCAGGAGAGCA GGGACCTCTGTGCGAACTTTCAGACCACCACACCACACTCTGGAGGAG GAM GCCAN GGGGACCCT CTGCAN GCCT GGGCTCTACTACAAGC TTCACATTAACAGACCCCTGACTATGAAGAAGGAAGGCATCCAGACC AGAAACCGAAAAAAAGTGCAAAAAAAGTGCATGA CTCACTGGAGGACTTCCCCAAGAACAGCTCTTTAACCCGGCCGCCCTCT CCAGACAC CACAGCTGACCACGCCCACGCCGGGCACCCCGCCAGCCTTTCCTT TGGACCACACCACCCTCCAGCAGCGAGACCCCCTGGGGTTAGAGCCCTGCTCGAGGGCTCACAGGGCCCCCAGCGAGACCCCTGCAGCCTTTCGACT #TTTTGAAGGCAGAAAGCAAA#TTAGCCTTGCCACTTTGCAAAGGAGCTC ACT GENERAL CTGGACCCC CTGGACCCC AAGTTAAGGAAAAGGAAACTAC CTG TTCCTTCACTGGCCA TTTGTTTCCTTTCACTGGCCA TCTGCAAAGGAAATACCAGTTCTGGGCAATCAGTTACCGTTCACCAGT TGCCTTGAGGGTTTCAGAGAGCCTTTTTCTAGGCCTACTTTTTGA EAAAMTTTATTACTGCTACTCTTAAGAACTGCTTTCTTTCETTETTETT TTCAMETTTCCTTCTCTCAMETTTC

Fig. 4 A

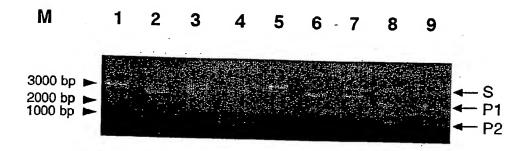


Fig. 5

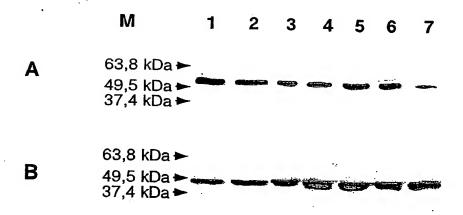


Fig. 6

Name	DNAzyme Sequenz
td1	TGGCTTCTAggctagctacaacgaGCCCTCGTC
td2	GGGCTCTGAggctagctacaacgaGCCTGGCTT
td3	GGGACCCCAggctagctacaacgaCGGAGCCCG
td4	GGTGGGGAggctagctacaacgaCCCACCGGA
td5	GGCGGGGAggctagctacaacgaCCGAGGGCC
td6	GGGCTGGGAggctagctacaacgaGGGCAGGGA
td7	CGTCGAGGAggctagctacaacgaCCGCCCCTC
td8	GGGCTGGCAggctagctacaacgaCTTCCCGTA
td9	CGATGCCCAggctagctacaacgaCCGGGGGGGG
td10	GCTCCACGA cact aget against ag
td11	GCTCCACGAggctagctacaacgaGCCCATCCG
td12	CCGGCTCCAggctagctacaacgaGATGCCCAT
td13	TCTCCGCAAggctagctacaacgaCCGGCTCCA
td14	CCGTCAGCAggctagctacaacgaGTCTCCGCA
td15	TCCCCGGCAggctagctacaacgaCGGCTCGGT
td16	CCCCCGCGAggctagctacaacgaGCTCGTCCG
	GTAGGGAGAggctagctacaacgaCCCAGGCTG
td17	GGGCGGCAggctagctacaacgaCAAGGCGCC
td18	CGGGAAGGAggctagctacaacgaTCGCCCGCG
td19	TAGTCCTCAggctagctacaacgaGCGGCCCCG
td20	TCCCCGACAggctagctacaacgaCTCCAGTCC
td21	TTTCCCCGAggctagctacaacgaACCTCCAGT
td22	TGAGCGCGAggctagctacaacgaCCTCAGTTT
td23	GGACCACAAggctagctacaacgaAGGTGGTTG
td24	CTTGGACCAggctagctacaacgaAACAGGTGG
td25	AAACTTGGAggctagctacaacgaCACAACAGG
td26	CTGATTAAAggctagctacaacgaTTGGACCAC
td27	TGGTGCTGAggctagctacaacgaTAAACTTGG
td28	TGATGATCAggctagctacaacgaCTCTGTCTG
td29	TGGTGATGAggctagctacaacgaCATCTCTGT
td30	GCTTGGTGAggctagctacaacgaGATCATCTC
td31	ATGGGAACAggctagctacaacgaCCGCCGTCC
td32	GAATGGGAAggctagctacaacgaATCCGCCGT
td33	TGACAGGAAggctagctacaacgaGGGAACATC
t d34	AGTAAATGAggctagctacaacgaAGGAATGGG
td35	CACAGTAAAggctagctacaacgaGACAGGAAT
td36	GCCCGGCCAggctagctacaacgaAGTAAATGA
td37	CCACAAACAggctagctacaacgaCCTGTAGTG
td38	GTCCACAAAggctagctacaacgaATCCTGTAG
td39	CCACGTCCAggctagctacaacgaAAACATCCT
td40	CCAAGACCAgggtaggtaggtaggtaggtaggtaggtaggtaggtagg
td41	CCACCAACAGGCtagctacaacgaGTCCACAAA
td42	CCACCAAGAggctagctacaacgaCACGTCCAC
td43	GCTGGTCCAggetagetacaacgaCAAGACCAC
td44	GCTCTGGTAggctagctacaacgaCGCCAGTGG
td45	CTGCACCCAggctagctacaacgaTTGCCGCTC
td45	CACACTGCAggctagctacaacgaCCACTTGCC
td45	CTTTCCACAggctagctacaacgaTGCACCCAC
td47	GCCTTTCCAggctagctacaacgaACTGCACCC
LU40	TTCCTGGCAggctagctacaacgaGCTGCCCTC

Fig. 7 Cont.

Name	DNAzyme Sequenz
TD49	GTGGACGTAggctagctacaacgaAGGCGGTTT
TD50	CCGGGTGGAggctagctacaacgaGTACAGGCG
TD51	CCTGGCGCAggctagctacaacgaCCAGTGCGC
TD52	CAAATGAAAggctagctacaacgaTTCCTGGCG
TD53	TTTCCCAAAggctagctacaacgaGAAACTTCC
TD54	ATTGTTGGAggctagctacaacgaGCCCCCTTG
TD55	TGGGTCACAggctagctacaacgaTGTTGGACG
TD56	TCTGGGTCAggctagctacaacgaATTGTTGGA
TD57	GCACAATCAggctagctacaacgaCTGGGTCAC
TD58	GGAGCACAAggctagctacaacgaCATCTGGGT
TD59	ACTGGAGCAggctagctacaacgaAATCATCTG
TD60	ATGGAGGGAggctagctacaacgaTGGAGCACA
TD61	TGGTACTTAggctagctacaacgaGGAGGGACT
TD62	GGGCTGGTAggctagctacaacgaTTATGGAGG
TD63	TCAACGATAggctagctacaacgaGCAGCCGGG
TD64	CCTCAACGAggctagctacaacgaATGCAGCCG
TD65	TCACCTCAAggctagctacaacgaGATATGCAG
TD66	CGTCGTTCAggctagctacaacgaCTCAACGAT
TD67	GTAAAGATAggctagctacaacgaGCGTGTTGG
TD68	AAGTAAAGAggctagctacaacgaATGCGTGTT
TD69	GGCAATGAAggctagctacaacgaTGGGTTTCT
TD70	TCACGGCAAggctagctacaacgaGAACTGGGT
TD71	AGGCAGTCAggctagctacaacgaGGCAATGAA
TD72	ATCTCGGCAggctagctacaacgaTCTGGTAGG
TD73	GCTGAGTAAggctagctacaacgaCTCGGCATT
TD74	TATTATCAAggctagctacaacgaTTTCAGCTG
TD75	GGGTTATTAggctagctacaacgaCAATTTTCA
TD76	AAGGGGTTAggctagctacaacgaTATCAATTT
TD77	CTCCCGGAAggctagctacaacgaCCTTTGGCA
TD78	GTACATGGAggctagctacaacgaTCAAAGTTC

Multiple Sequenz Alignments T-bet

Seq_1 Seq_2	1	CGGCCCGCTGGAGAGGAAGCCCGAGAGCTGCCGCGCCCTGCCGGACGAGGGCGTAGAAGCCGGCCCGCCGCGCGGACGAGGGGCGTAGAAGCCGGGCCTGCCGGACGAGGGCGTAGAAGCCGGGCCTGCCGGACGAGGGCGTAGAAG	60 60
Seq_1 Seq_2	61 61	CCAGGCGTCAGAGCCCGGGCTCCGGTGGGGTCCCCACCCGGCCCTCGGGTCCCCCCCC	450
Seq_1	121	CCTGCTCCCTGCCGATCCCAGCCCACGCGACCCTCTCGCGCGCG	180
Seq_2	121		180
Seq_1	181	ACGGCTACGGGAAGGTGCCAGCCCGCCCCGGATGGGCATCGTGGAGCCGGGTTGCGGAGA	240
Seq_2	181	ACGGCTACGGGAAGGTGCCAGCCCGCCCCGGATGGGCATCGTGGAGCCGGGTTGCGGAGA	240
Seq_1	241	CATGCTGACGGGCACCGAGCCGATGCCGGGGAGCGACGAGGGCCGGGCGCCTGGCGCGA	300
Seq_2	241	CATGCTGACGGGCACCGAGCCGATGCCGGGGAGCGACGACGAGGGCCGGGCGCCTGGCGCCGA	300
Seq_1	301	CCCGCAGCAECGCTACTTCTACCCGGAGCCGGGCGCCAGGACGCGGACGAGCGTCGCGG	360
Seq_2	301	CCCGCAGCAECGCTACTTCTACCCGGAGCCGGGCGCGCGAGGAGCGAGCG	360
Seq_1	361	GGGCGCAGCCTGGGGTCTCCCTACCCGGGGGGCGCCTTGGTGCCCGCCC	420
Seq_2	361		420
Seq_1	421	CTTCCTTGGAGCCTACGCCTACCCGCCGCGACCCCAGGCGGCCGGC	480
Seq_2	421		480
Seq_1	481	CGAGTCCTTCCCGCCGCCGCGGACGCCGAGGGCTACCAGCCGGGCGAGGGCTACGCCGC	540
Seq_2	481	CGAGTCCTTCCCGCCGCCGCGGACGCCGAGGGCTACCAGCCGGGCGAGGGCTACGCCGC	540
Seq_1	541	CCCGGACCCGCGCGCGCCTTACCCGGGGCCGCGTGAGGACTACGCGCTACCCGCGGGCCCGGGACCCGCGCGCG	600
Seq_2	541		600
Seq_1	601	ACTGGAGGTGTCGGGGAAACTGAGGGTCGCGCTCAACAACCACCTGTTGTGGTCCAAGTT	660
Seq_2	601	ACTGGAGGTGTCGGGGAAACTGAGGGTCGCGCTCAACAACCACCTGTTGTGGTCCAAGTT	660
Seq_1	661	TAATCAGCACCAGACAGAGATGATCATCACCAAGCAGGGACGGCGGATGTTCCCATTCCT	720
Seq_2	661	TAATCAGCACCAGACAGGAGATGATCATCACCAAGCAGGGACGGCGGATGTTCCCATTCCT	720
Seq_1	721	GTCATTTACTGTGGCCGGGCTGGAGCCCACCAGCCACTACAGGATGTTTGTGGACGTGGT	780
Seq_2	721	GTCATTTACTGTGGCCGGGCTGGAGCCCACCAGCCACTACAGGATGTTTGTGGACGTGGT	780
Seq_1	781	CTTGGTGGACCACCACTGGCGGTACCAGAGCGGCAAGTGGGTGCAGTGTGGAAAGGC	840
Seq_2	781	CTTGGTGGACCAGCACCACTGGCGGTACCAGAGCGGCAAGTGGGTGCAGTGTGGAAAGGC	840
Seq_1	841	CGAGGGCAGCATGCCAGGAAACCGCCTGTACGTCCACCCGGACTCCCCCAACACAGGAGC	900
Seq_2	841	CGAGGGCAGCATGCCAGGAAACCGCCTGTACGTCCACCCGGACTCCCCCAACACAGGAGC	900
Seq_1	901	GCAC FGGATGCGCCAGGAAGTTTCATTTGGGAAACTAAAGCTCACAAACAA	960
Seq_2	901		960
Seq_1	961	GTCCAACAATGTGACCCAGATGATTGTGCTCCAGTCCCTCCATAAGTACCAGCCCCGGCT	1020
Seq_2	961		1020
Seq_1 Seq_2	1021	GCATATCGTTGAGGTGAACGACGGAGAGCCAGAGGCAGCCTGCAACGCTTCCAACACGCA GCATATCGTTGAGGTGAACGACGGAGAGCCAGAGGCAGCCTGCAACGCTTCCAACACGCA td69 td70	1080 1080
Seq_1	1081	TATCTTTACTTTCCANA ACCUAGATECATE GTGACTGCCTACCAGAATGCCGAGAT TATCTTTACTTTCCAAGAAACCCAGTTCATTGCCGTGACTGCCTACCAGAATGCCGAGAT	1140
Seq_2	1081		1140
Seq_1	1141	TACTCAGCTGAAAATTGATAATAACCCCTTTGCCAAAGGATTCCGGGAGAACTTTGAGTC	1200
Seq_2		.TACTCAGCTGAAAATTGATAATAACCCCTTTGCCAAAGGATTCCGGGAGAACTTTGAGTC	1200
Seq_1	1201	CATGTACACATCTGTTGACACCAGCATCCCCTCCCCGCCTGGACCCAACTGTCAATTCCT	1260
Seq_2	1201	CATGTACACATCTGTTGACACCAGCATCCCCTCCCC	1260
Seq_1	1261	TGGGGGAGATCACTACTCTCCTCCTACCCAACCAGTATCCTGTTCCCAGCCGCTTCTA	1320
Seq_2	1261	TGGGGGAGATCACTACTCCTCCTCCCTACCCAACCAGTATCCTGTTCCCAGCCGCTTCTA	1320
Seq_1	1321	CCCCGACCTTCCTGGCCAGGCGAAGGATGTGGTTCCCCAGGCTTACTGGCTGG	1380
Seq_2	1321		1380
Seq_1	1381	CCGGGACCACAGCTATGAGCTGAGTTTCGAGCAGTCAGCATGAAGCCTGCATTCTTGCC	1440
Seq_2	1381	CCGGGACCACAGCTATGAGCTGAGTTTCGAGCAGTCAGCATGAAGCCTGCATTCTTGCC	1440

Fig. 8 Cont.

Seq_1	1441	CTCTGCCCTGGGCCCACCATGTCCTACTACCGAGGCCAGGAGGTCCTGGCACCTGGAGC	
Seq_2	1441	CTCTGCCCTGGGCCCACCATGTCCTACTACCGAGGCCAGGAGGTCCTGGCACCTGGAGC	1500 1500
Seq_1	1501	TGGCTGGCCTGTGGCACCCCAGTACCCTCCCAAGATGGGCCCGGCCAGCTGGTTC	
Seq_2	1501	TGGCTGGCCTGTGGCACCCCAGTACCCCCCAAGATGGGCCCGGCCAGCTGGTTCGGCCC	1560 1560
Seq_1	1561		
Seq_2	1561	TATGCGGACTCTGCCCATGGAACCCGGCCCTGGAGGCTCAGAGGGACGGGGACCAGAGGA TATGCGGACTCTGCCCATGGAACCCGGCCCTGGAGGCTCAGAGGGACGGGGACCAGAGGA	1620 1620
Seq_1	1621		
Seq_2	1621	CCAGGGTCCCCCTTGGTGTGGACTGAGATTGCCCCCATCCGGCCGG	1680 1680
Seq_1	1681		
Seq_2	1681	AGGACTGGGCGAAGGAGACTCTAAGAGGAGGCGCGTGTCCCCCTATCCTTCCAGTGGTGA	1740
		TO STOLE OF THE STATE OF THE ST	1740
Seq_1	1741	CAGCTCCTCCCTGCTGGGGCCCCTTCTCCTTTTGATAAGGAAGCTGAAGGACAGTTTTA	1800
Seq_2	1741	CAGCTCCTCCCTGCTGGGGCCCCTTCTCCTTTTGATAAGGAAGCTGAAGGACAGTTTTA	1800
Seq_1	1801	TAACTATTTCCCAACTGAGCAGATGACATGATGAAAGGAACAGAAACAGTGTTATTAGG	
Seq_2	1801	TAACTATTTCCCAACTGAGCAGATGACATGATGAAAGGAACAGAAACAGTGTTATTAGG	1860 1860
Seq_1	1861	TTGGAGGACACCGACTAATTTGGGAAACGGATGAAGGACTGAGAAGGCCCCCGCTCCCTC	
Seq_2	1861	TTGGAGGACACCGACTAATTTGGGAAACGGATGAAGGACTGAGAAGGCCCCCGCTCCCTC	1920 1920
Seq_1	1921	TGGCCCTTCTCTCTTT CT A CTTTCCTTT CCCCC	
Seq_2	1921	TGGCCCTTCTCTGTTTAGTAGTTGGTTGGGGAAGTGGGGCTCAAGAAGGATTTTGGGGTT TGGCCCTTCTCTGTTTAGTAGTTGGTTGGGGAAGTGGGGCTCAAGAAGGATTTTGGGGTT	1980 1980
Seq_1	1981		
Seq_2	1981	CACCAGATGCTTCCTGGCCCACGATGAAACCTGAGAGGGGGTGTCCCCTTGCCCCATCCTC	2040
		CACCAGATGCTTCCTGGCCCACGATGAAACCTGAGAGGGGTGTCCCCTTGCCCCATCCTC	2040
Seq_1	2041	TGCCCTAACTACAGTCGTTTACCTGGTGCTGCGTCTTGCTTTTGGTTTCCAGCTGGAGAA	
Seq <u>_</u> 2	2041	TGCCCTAACTACAGTCGTTTACCTGGTGCTGCTCTTGCTTTTGGTTTCCAGCTGGAGAA	2100 2100
Seg_1	2101	AAGAAGACAAGAAAGTCTTGGGCATGAAGGAGCTTTTTGCATCTAGTGGGTGG	
Seq_2	2101	AAGAAGACAAGAAAGTCTTGGGCATGAAGGAGCTTTTTGCATCTAGTGGGTGG	2160 2160
Seq_1	2161	CAGGTGTGGGACATGGGAGCAGGAGACTCCACTTTCTTCCTTTGTACAGTAACTTTCAAC	
Seq_2	2161	CAGGTGTGGGACATGGGAGCAGGAGACTCCACTTTCTTCCTTTGTACAGTAACTTTCAAC	2220 2220
Seq_1	2221	CTTTTCGTTCGCATCTCTCTTTTAAMCCCTCATCATCATCATCATCATCATCATCATCATCATCAT	
Seq_2	2221	CTTTTCGTTGGCATGTGTTAATCCCTGATCCAAAAAGAACAAATACACGTATGTTATA CTTTTCGTTGGCATGTGTTAATCCCTGATCCAAAAAGAACAAATACACGTATGTTATA	2280 2280
Seg_1	2281	ACCATCAGCCCGCCAGGGTCAGGGAAAGGACTCACCTGACTTTGGACAGCTGGCCTGGGC	
Seq_2	2281	ACCATCAGCCCGCCAGGGTCAGGGAAAGGACTCACCTGACTTTGGACAGCTGGCCTGGGC	2340
			2340
Seg_1	2341	TCCCCCTGCTCAAACACAGTGGGGATCAGAGAAAAGGGGGCTGGAAAGGGGGGAATGGCCC	2400
Seq_2	2341	TCCCCCTGCTCAAACACAGTGGGGATCAGAGAAAAGGGGGGGAATGGCCC	2400
Seq_1	2401		
Seq_2	2401	ACATCTCAAGAAGCAAGATATTGTTTGTGGTGGTGTGTGT	2460
004_2	2401	ACATCTCAAGAAGCAAGATATTGTTTGTGGTGGTTGTTGTGTGTG	2450
Seq_1	2461	TTCTTTCTTTTT ATTTTTTC AND COCCA COCCA	
Seq_2	****	TTCTTTCTTTTATTTTTTTTGAATGGGGGGGCTATTTATT	2520

Seq_1	2521	GGATATATTCCTTTTGTCTTCATCACTTTCTGAAAATAAACATAAAACTGTTAAAAAAA	0500
Seq_2	****	TARANANA	2580 ****
Seq_1	2581	AAAAAAA	
Seq_2	****		2589

CGGCCCGCTGGAGAGGAAGCCCGAGAGCTGCCGCGCCCTGCCGGACGAG GGCGTAGAAGCCAGGCGTCAGAGCCCGGGCTCCGGTGGGGTCCCCCACCC GGCCCTCGGGTCCCCGCCCCCTGCTCCCTGCCCATCCCAGCCCACGCGA CCCTCTCGCGCGCGGAGGGGCGGGCTCCTCGACGGCTACGGGAAGGTGCCA GCCCGCCCGGATGGGCATCGTGGAGCCGGGTTGCGGAGACATGCTGACG GGCACCGAGCCGATGCCGGGGAGCGACGAGGGCCGGGCGCCTGGCGCCGA CCCGCAGCACCGCTACTTCTACCCGGAGCCGGGCGCGCAGGACGCGGACG AGCGTCGCGGGGGCGCCAGCCTGGGGTCTCCCTACCCGGGGGGCGCCCTTG GTGCCCGCCGCCGAGCCGCTTCCTTGGAGCCTACGCCTACCCGCCGC ACCCCAGGCGGCCGCTTCCCCGGCGCGGCGAGTCCTTCCCGCCGCCCG CGGACGCCGAGGGCTACCAGCCGGGCGAGGGCTACGCCGCCCGGACCCG CGCGCCGGGCTCTACCCGGGGCCGCGTGAGGACTACGCGCTACCCGCGGG ACTGGAGGTGTCGGGGAAACTGAGGGTCGCGCTCAACAACCACCTGTTGT GGTCCAAGTTTAATCAGCACCAGACAGAGATGATCATCACCAAGCAGGGA CGGCGGATGTTCCCATTCCTGTCATTTACTGTGGCCGGGCTGGAGCCCAC ${\tt CAGCCACTACAGGATGTTTGTGGACGTGGTCTTGGTGGACCAGCACCACT}$ GGCGGTACCAGAGCGGCAAGTGGGTGCAGTGTGGAAAGGCCGAGGGCAGC ATGCCAGGAAACCGCCTGTACGTCCACCCGGACTCCCCCAACACAGGAGC GCACTGGATGCGCCAGGAAGTTTCATTTGGGAAACTAAAGCTCACAAACA ACAAGGGGGCGTCCAACAATGTGACCCAGATGATTGTGCTCCAGTCCCTC CATAAGTACCAGCCCGGCTGCATATCGTTGAGGTGAACGACGGAGAGCC AGAGGCAGCCTGCAACGCTTCCAACACGCATATCTTTACTTTCCAAGAAA CCCAGTTCATTGCCGTGACTGCCTACCAGAATGCCGAGATTACTCAGCTG AAAATTGATAATAACCCCTTTGCCAAAGGATTCCGGGAGAACTTTGAGTC CARLACACTETGACACCAGCECCTCCCCCCCCCCGCCTGGACCCAACT CAN TCCTTGGGGGAGA CACTACTCTCCTCCTACCCAACCA CCTETTCCCAGCCGCTTCTACCCCGACCTTCCTGGCCAGGCGAAGG GTTCCCCAGGCTTACTGGCTGGGGGCCCCCGGGACCACAGCT GAGG CTGA TTCGAGCA CAGCA GAAGCCTGC TTCTTGCCCTCTGCCCCT GGGCCCACCARGECCTACTACCGAGGCCCAGGACCTCCTGGCACCTGGAGC TGGCTGGCCTCTGGCACCCCAGAACCCTCCCAAGATGGGGCCCGGCCAGCT #AACTATTTCCCAACTGAGCAGAGGACAGAACAGAAACA TAGETGGAGGACACCGACTASTTTGGGAAACGGAGGACT AAGAAGACAAGAAATCTTGGGCCTGAAGGAGCTTTTTGCTTCTA #GGGAGGG#CAGGGACACTCCACTTTCTTCC TTTERACA CTAACTTTCAACCTTTTC TGGCATATIGETAKTCCCTG AGGGAAAGGACTCACCTGACTTTGGACAGCTGGCCTGGGCTCCCCCTGCT CAAACACAETGGGGGTCAGAAAAGGGGGGGAAAGGGGGGAATGGGCCC TGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Fig. 8A

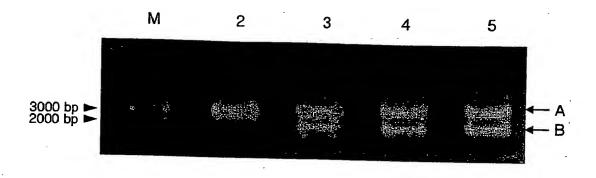


Fig. 9

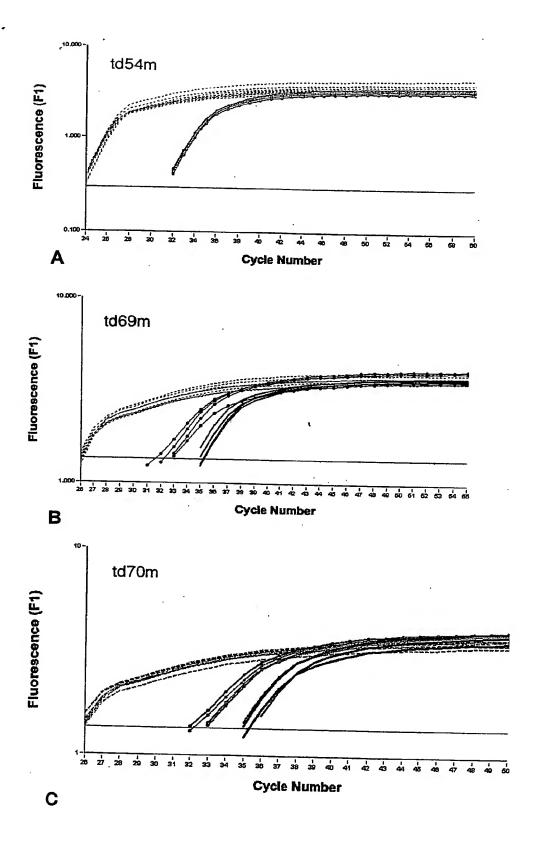


Fig. 10

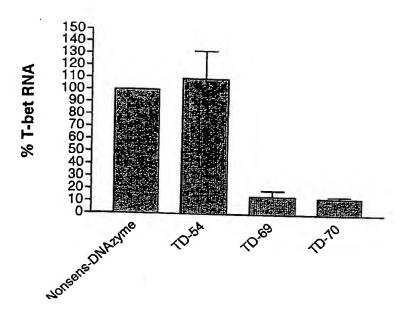


Fig. 11